

### **Amendment to the Specification**

**Please replace the first paragraph on p. 5, beginning at line 6 (paragraph 10) with the following replacement paragraph:**

In one aspect, the invention provides a transgenic nematode, the cells of which contain a transgene comprising a DNA sequence including a regulatory element of a gene that encodes a nematode secretion product or a homolog thereof operably linked to a DNA sequence encoding a detectable marker. In certain embodiments of the invention the transgene further comprises at least a portion of the coding sequence of the gene, so that transgene encodes at least a portion of a nematode secreted protein or homolog thereof fused to a detectable marker. The transgene optionally includes partial or complete sequence from one or more introns and/or from the 3' UTR of the gene. Preferably the transgenic nematode is *C. elegans*. In preferred embodiments of the invention the gene is a *C. elegans* homolog of a protein that is secreted by a parasitic nematode species. The detectable marker can be, for example, a fluorescent polypeptide, a chemiluminescent polypeptide, an epitope tag, or an enzyme. Particular examples of appropriate markers include, but are not limited to, green fluorescent protein, luciferase, chloramphenicol acetyl transferase, xanthine-guanine phosphoribosyl transferase, beta-galactosidase, a Myc tag, and an HA tag. The Myc tag is discussed further in the Examples. The HA tag is the influenza hemagglutinin epitope YPYDVPDYA (SEQ ID NO: 25). Both of these tags are well known in the art.

**Please replace the description of Figure 3 in the Brief Description of the Drawing, p. 12, beginning at line 26 (paragraph 26) with the following replacement paragraph:**

Figure 3 shows a CLUSTAL W alignment of the N and C terminal VAP domains of VAP-1 and VAP-2 with selected other nematode venom allergen proteins. The figure shows the amino acid sequences of VAP-1N (SEQ ID NO: 26), VAP-1C (SEQ ID NO: 27), VAP-2N (SEQ ID NO: 28), VAP-2C (SEQ ID NO: 29); ASP-1N (SEQ ID NO: 30); ASP-1C (SEQ ID NO: 31); VAP-3 (SEQ ID NO: 32); MSP-1 (SEQ ID NO: 33). SEQ ID NO: 26 corresponds to residue numbers 1-213 of SEQ ID NO: 1. SEQ ID NO: 27 corresponds to residue numbers 214-425 of SEQ ID NO:

1. SEQ ID NO: 28 corresponds to residue numbers 1-268 of SEQ ID NO: 3. SEQ ID NO: 29 corresponds to residue numbers 269-473 of SEQ ID NO: 3.



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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Liu, et al. Examiner: Priebe, S.  
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For: SCREENS AND ASSAYS FOR AGENTS USEFUL IN CONTROLLING  
PARASITIC NEMATODES

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**AMENDMENT INTRODUCING SEQUENCE LISTING**

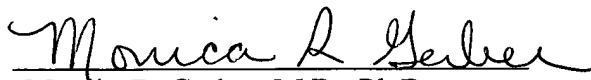
In the Specification

Beginning on a new page, immediately before the claims, please insert the attached Sequence Listing into the above-referenced case; please renumber subsequent pages accordingly.

Applicant submits that the instant Amendment includes no new matter.

Please charge any fees that may be associated with this matter, or credit any overpayments, to our Deposit Account No. 03-1721.

Respectfully submitted,

  
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